Figure 1

Figure 2

Common Application Interface Metamodel
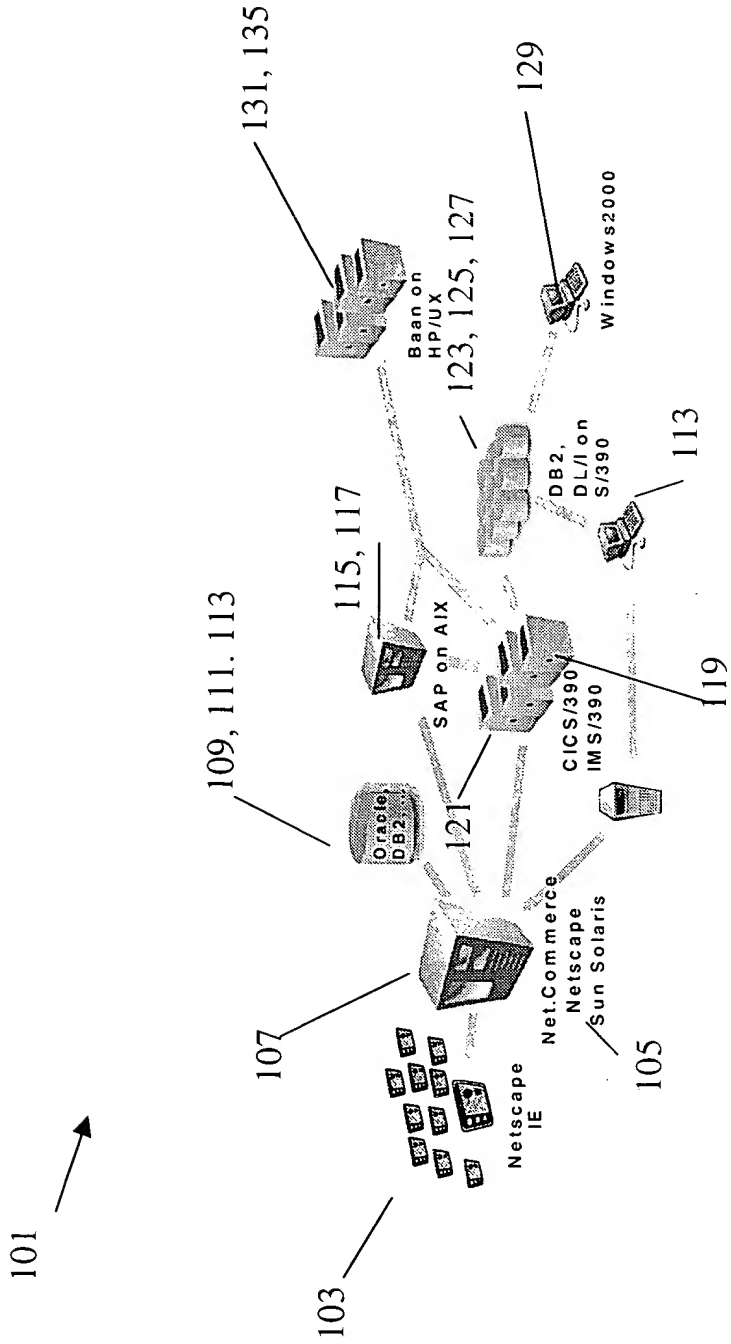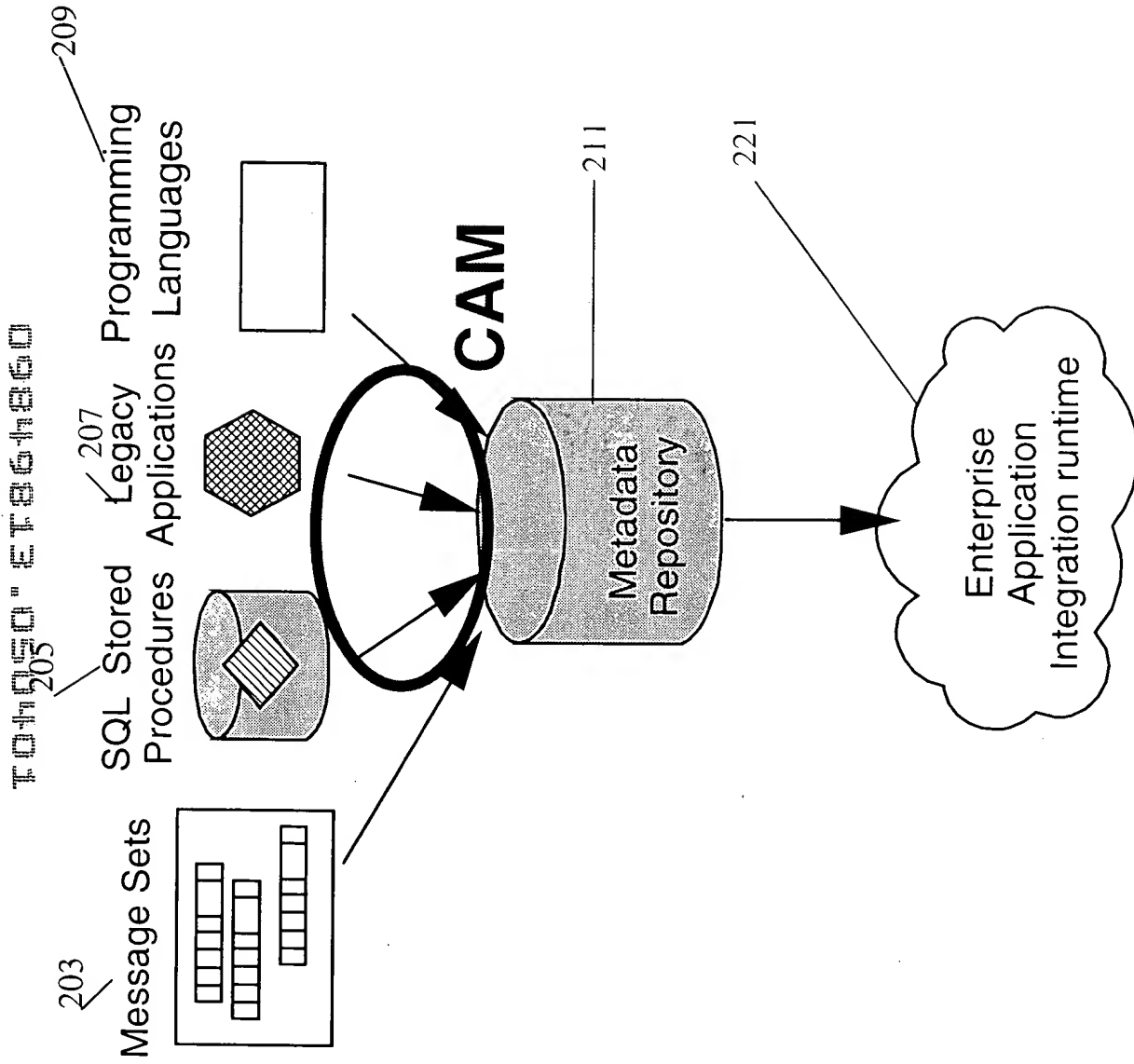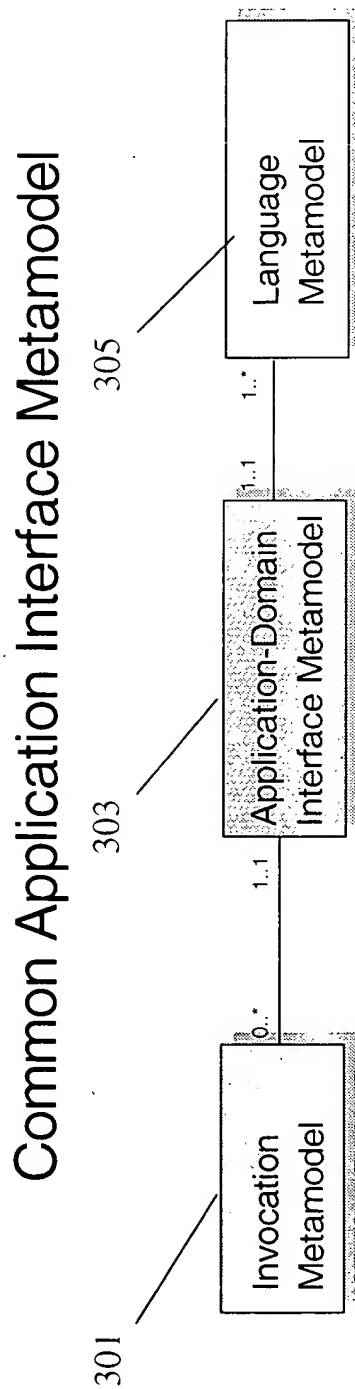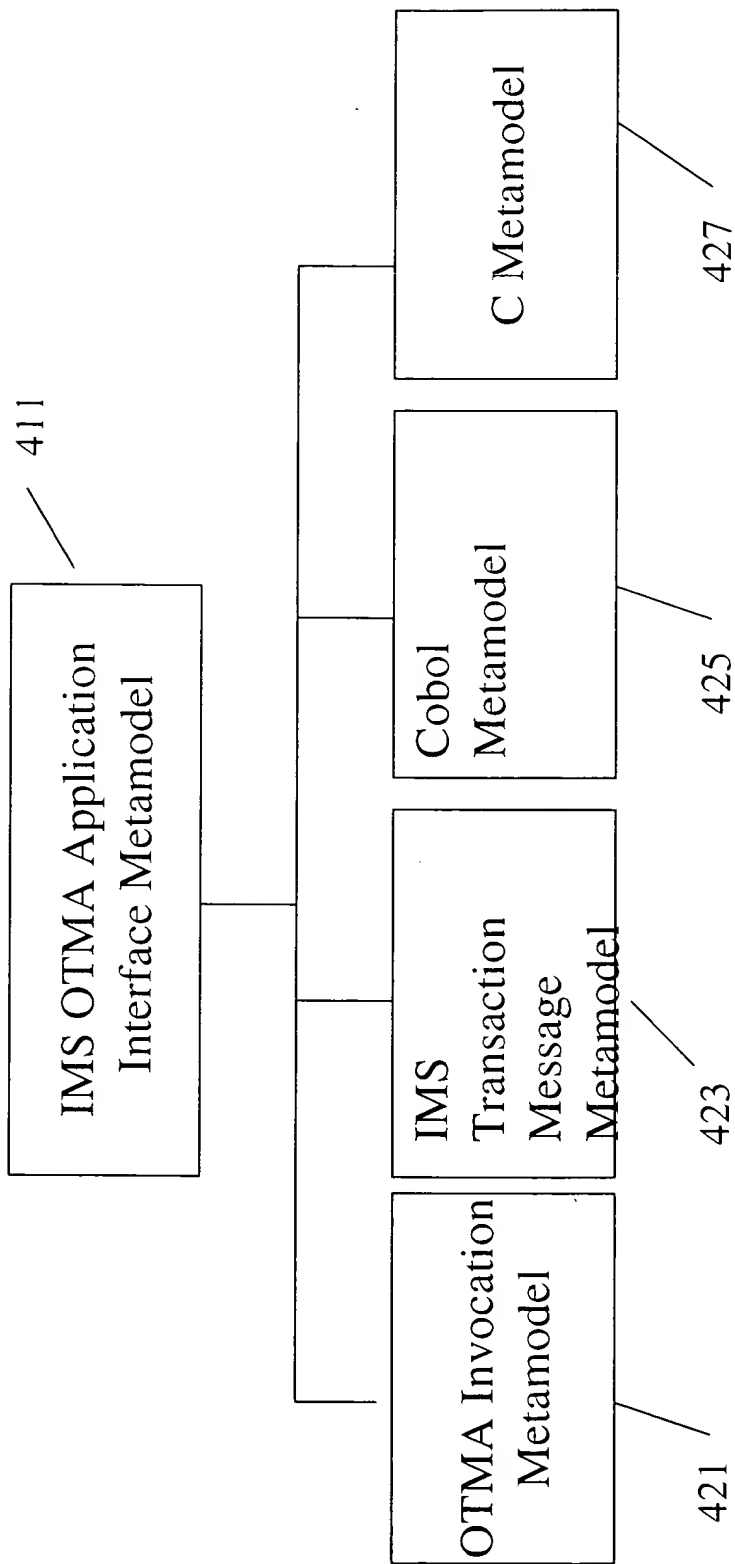

Figure 3

Figure 4

Figure 5
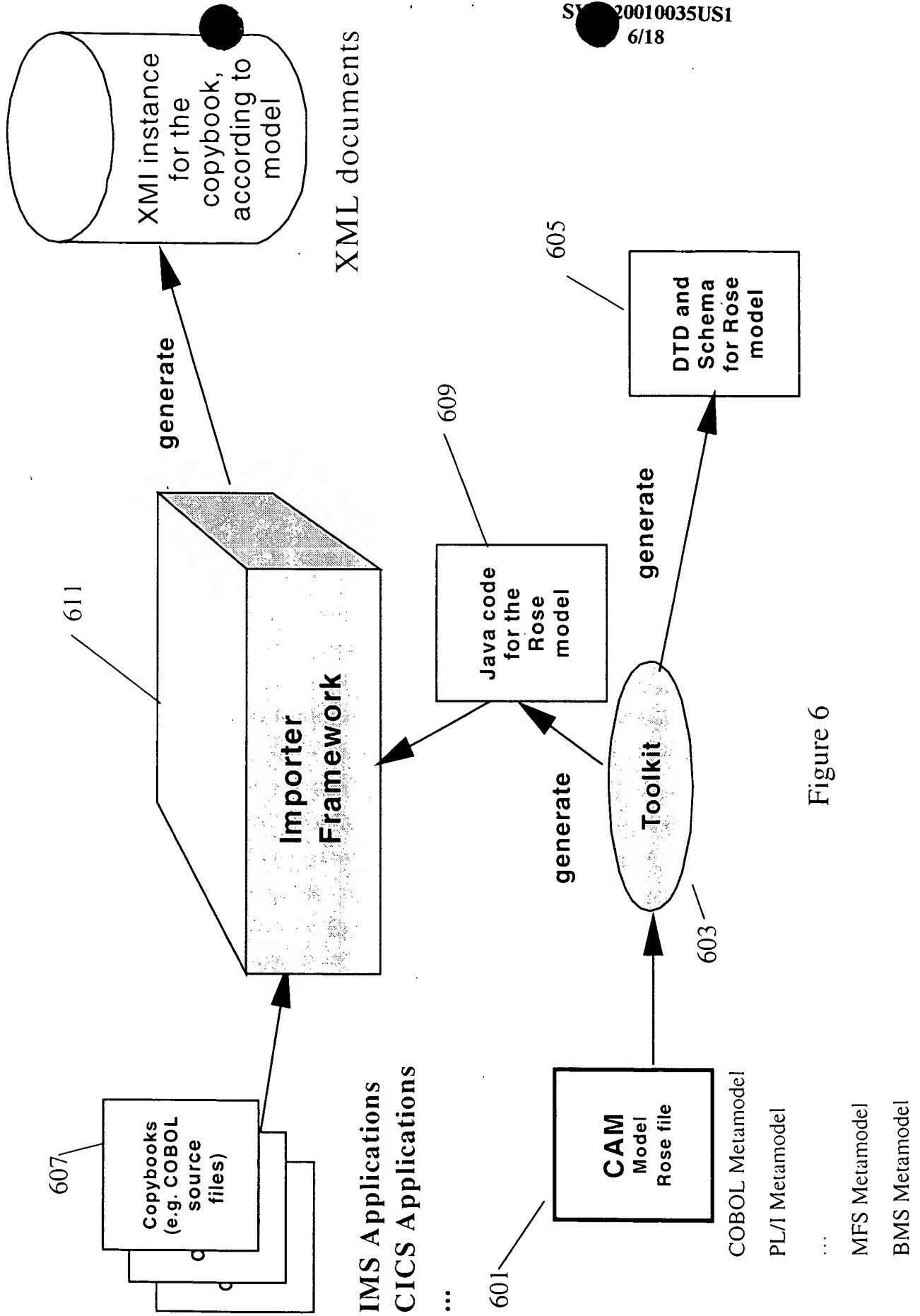
Figure 6

Figure 7
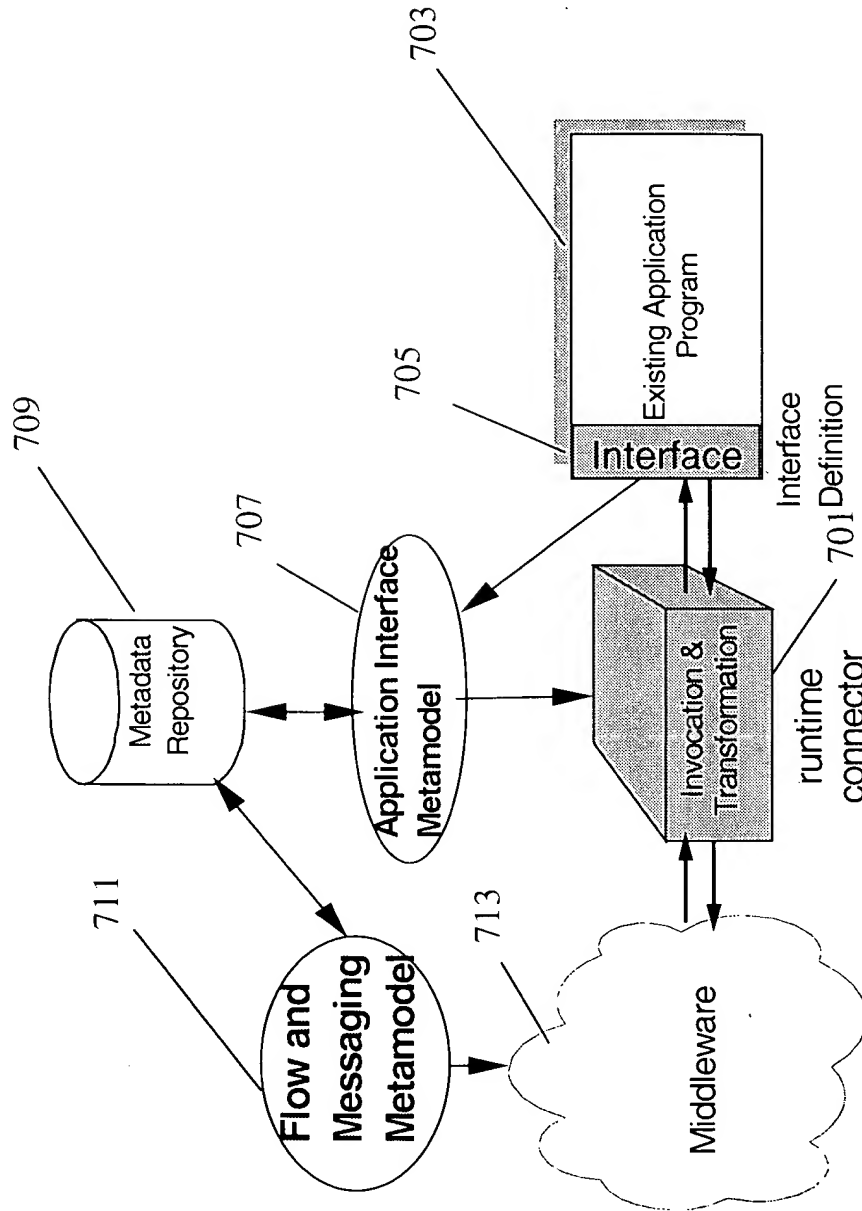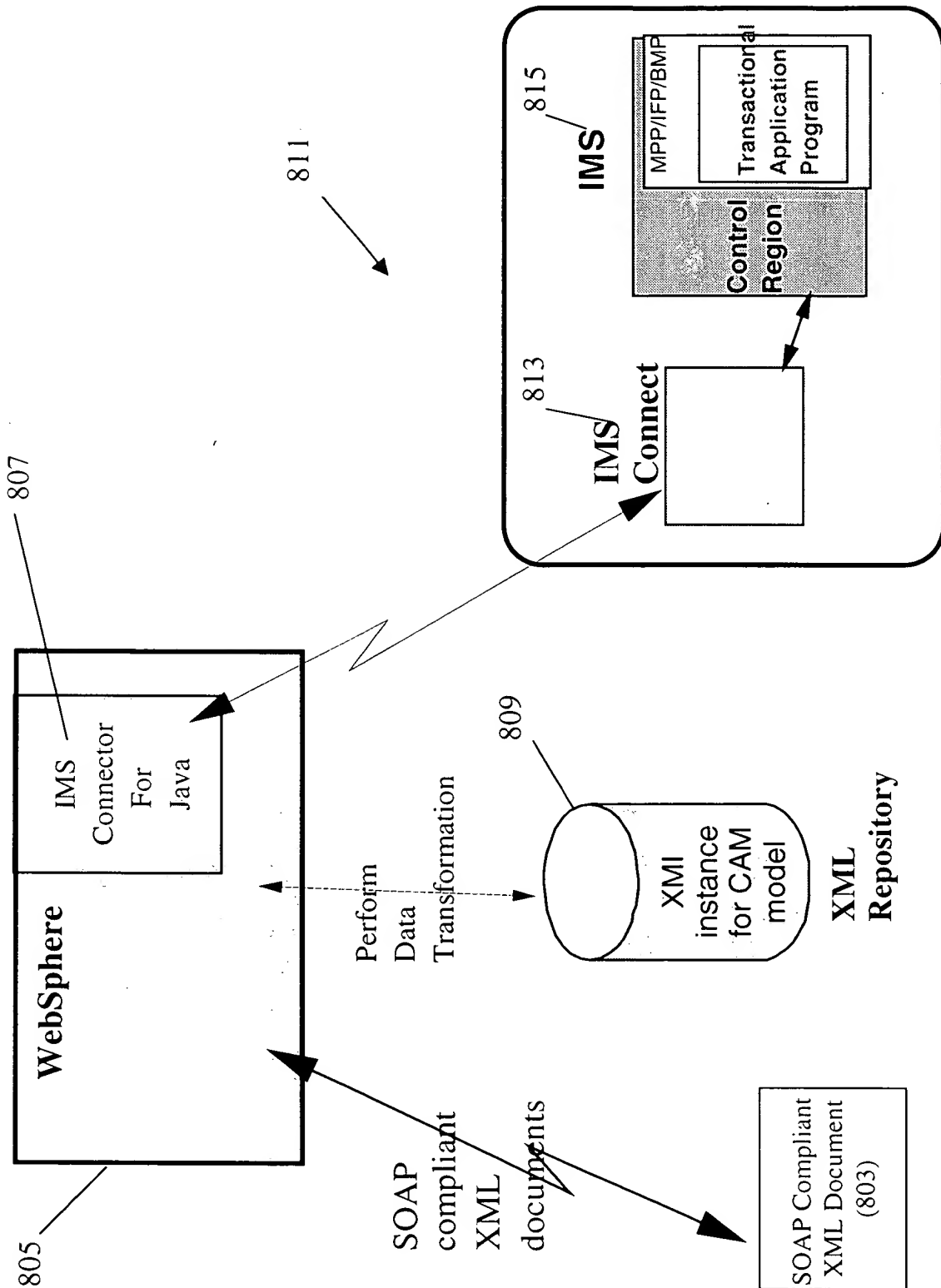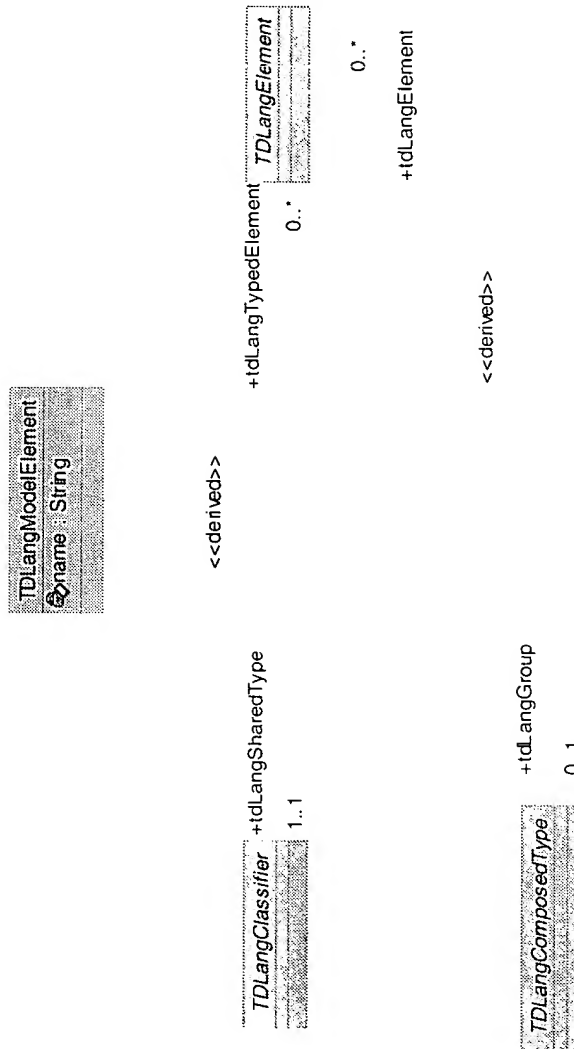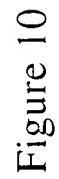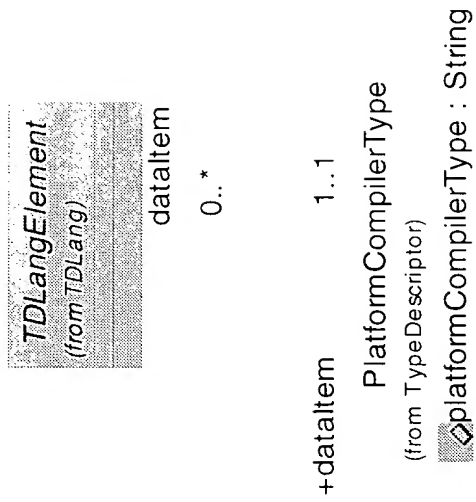
Figure 8

Figure 9

Figure 10

Figure 11

```
<<enumeration>>        <<enumeration>>
signCoding             lengthEncoding
  twosComplement         fixedLength
  onesComplement         lengthPrefixed
  signMagnitude          nullTerminated
  zoneSigns
  packedSigns
  unsignedBinary
  unsignedDecimal

<<enumeration>>        <<enumeration>>        <<enumeration>>        <<enumeration>>
floatType              accessor               packedDecimalSign      bitModePad
  Unspecified            ReadOnly               MVS                    mode16
  IEEEextendedIntel       WriteOnly              MVSCustom              mode24
  IEEEextendedAIX         ReadWrite              NT OS2 AIX             mode31
  IEEEextendedOS390       NoAccess                                      mode32
  IEEEextendedAS400                                                     mode64
  IEEEnonextended                                                       mode128
  IBM390Hex
  IBM400Hex

<<enumeration>>
addrUnit
  bit
  byte
  word
  doubleWord
```

Figure 12

COBOLClassifier   1..1
 Typedef : boolean   +sharedType

COBOLSimpleType
 usage : COBOLUsageValues
 pictureString : String
 Synchronized : Boolean = false
 getCanonicalPictureString()

COBOLComposedType   0..1
  +group

COBOLAlphabeticType
 JustifyRight : Boolean = false

COBOLAlphaNumericType
 JustifyRight : Boolean = false

COBOLNumericType
 Signed : Boolean
 SignLeading : Boolean
 SignSeparate : Boolean
 currencySymbol : char
 trunc : String
 num proc : String
 Decimal : Boolean

COBOLAlphaNumericEditedType

COBOLNumericEditedType
 BlankWhenZero : Boolean
 currencySign : String
 Decimal : Boolean

COBOLDBCSType

COBOLObjectReferenceType
 ClassName : String

COBOLUnicodeType

COBOLInternalFloatType

COBOLExternalFloatType

COBOLAddressingType

+typedElement 0..

COBOL88Element
 name : String

COBOL88ElementValue
 LowerLimit : String
 UpperLimit : String
 Range : Boolean

+contains
 0..

COBOLRedefiningElement

+element 1..1
+redefines

COBOLElement
 level : String
 redefined : Boolean = false

+containedBy 1..1

COBOLElementInitialValue
 initVal : String
 valueKind : COBOLInitialValueKind = string_value

+initial 0..

+element 0..

+element 1..1

+belongsTo

+has
 1..

+redefines 1..1

+depending On +dependedUpon
 1..1

+array COBOLFixedLengthArray
 0..1

COBOLVariableLengthArray
 minUpper : Integer
 0..1

+depending On

+end +start
 0..1 1..1

COBOL66Element
 name : String

+endOf +startOf
 0..1 0..1

+source 1..1
COBOLSourceText
 source : String
 fileName : String

+array01

Figure 13

TD10.050" ET964860

TDLangClassifier
(from TDLang)

TDLangComposedType
(from TDLang)

TDLangElement
(from TDLang)

COBOLClassifier
(from cobol)

◇Typedef : boolean

COBOLComposedType
(from cobol)

COBOLElement
(from cobol)

◇level : String
◇redefined : Boolean = false

COBOLElementInitialValue
(from cobol)

◇initVal : String
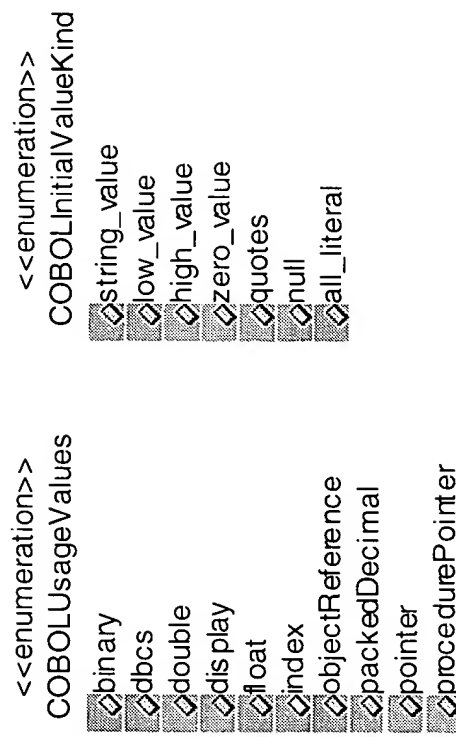◇valueKind : COBOLInitialValueKind = string_value

Figure 14

<<enumeration>>
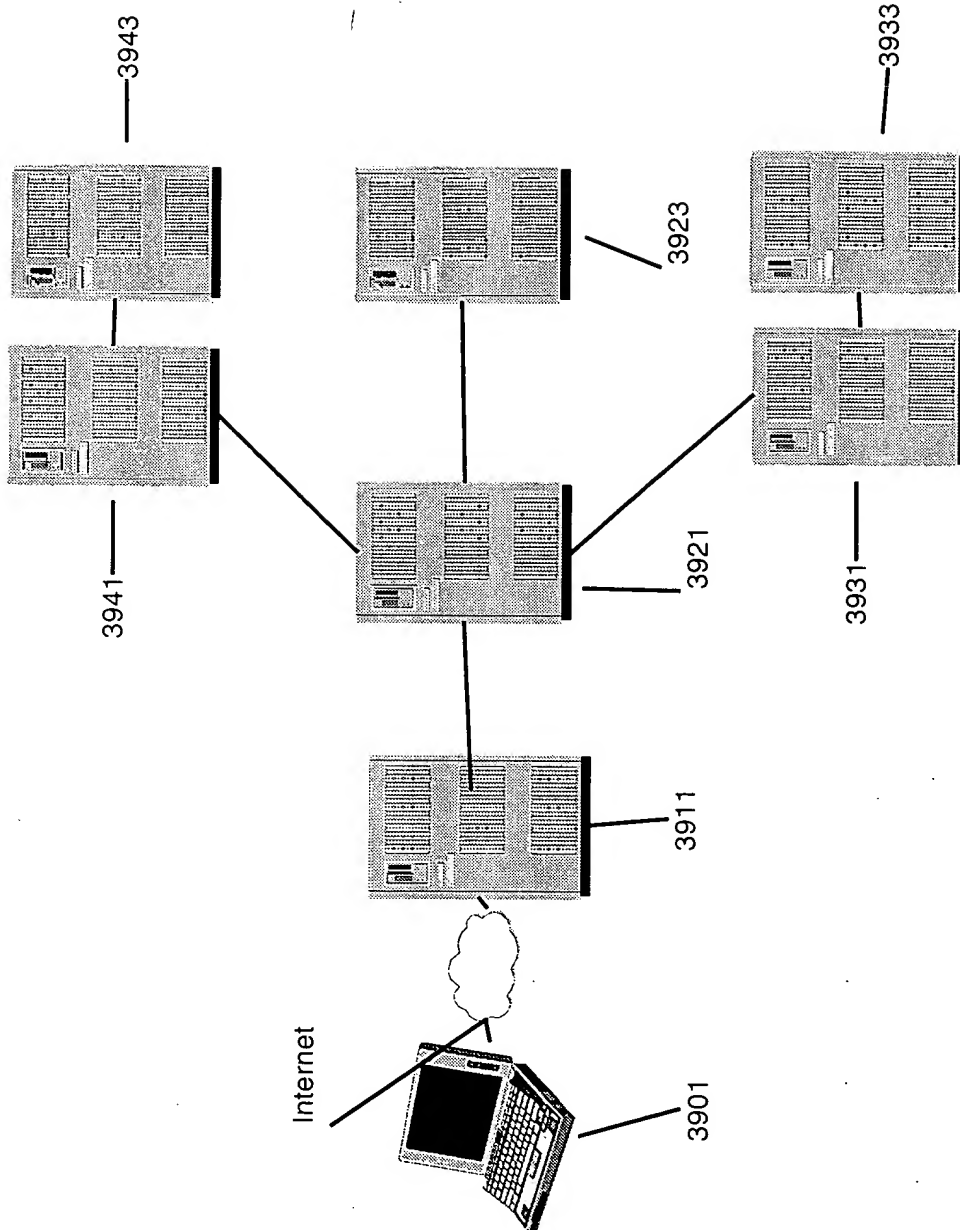COBOLUsageValues
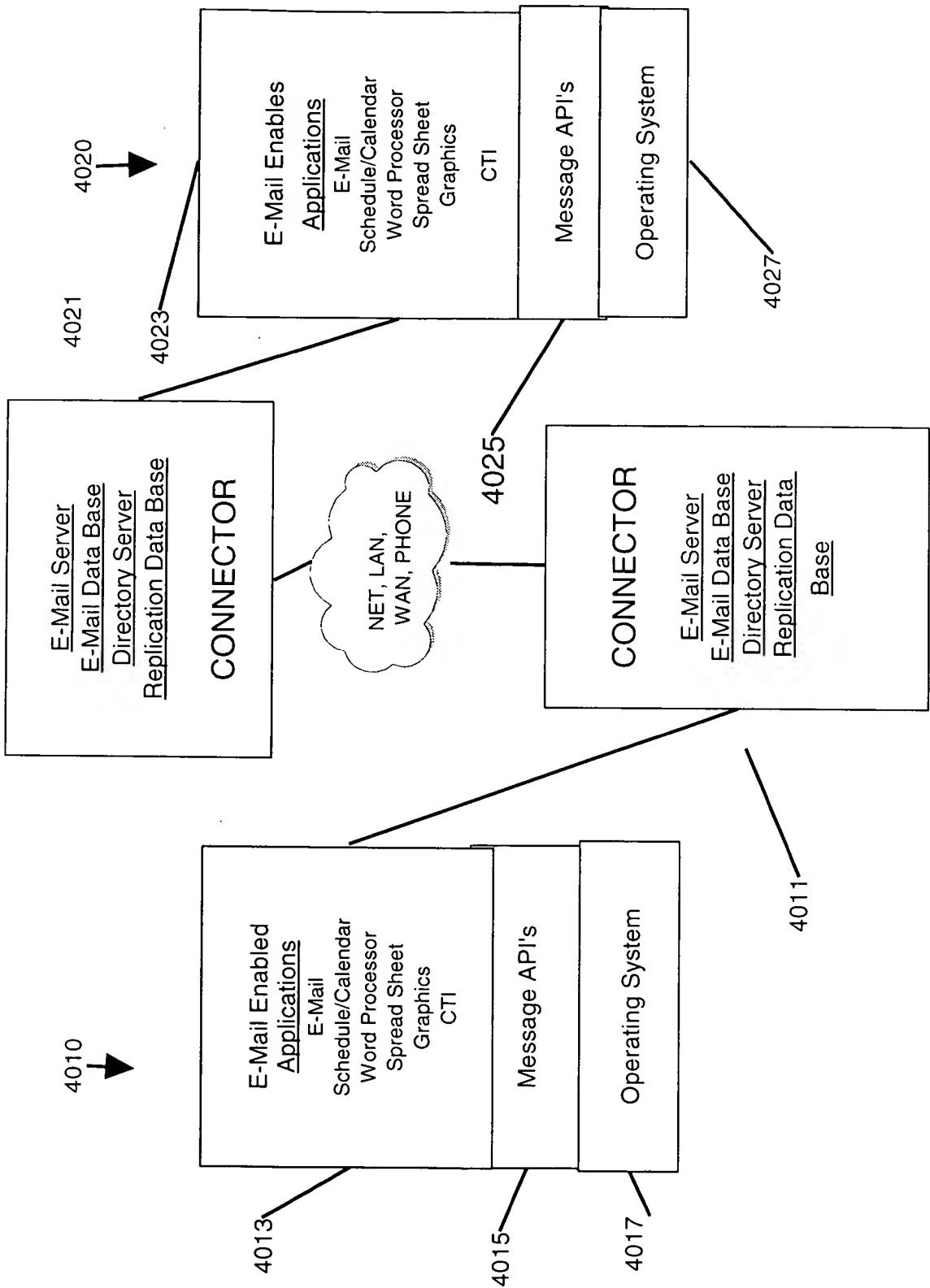
◇binary
◇dbcs
◇double
◇display
◇float
◇index
◇objectReference
◇packedDecimal
◇pointer
◇procedurePointer

<<enumeration>>
COBOLInitialValueKind

◇string_value
◇low_value
◇high_value
◇zero_value
◇quotes
◇null
◇all_literal

Figure 15

FIGURE 16

FIGURE 17

4020 →

E-Mail Enables
Applications
E-Mail
Schedule/Calendar
Word Processor
Spread Sheet
Graphics
CTI

4021

4023

Message API's

Operating System

4027

E-Mail Server
E-Mail Data Base
Directory Server
Replication Data Base

CONNECTOR

NET, LAN,
WAN, PHONE

4025

CONNECTOR

E-Mail Server
E-Mail Data Base
Directory Server
Replication Data
Base

4011

4010 →

E-Mail Enabled
Applications
E-Mail
Schedule/Calendar
Word Processor
Spread Sheet
Graphics
CTI

4013

Message API's

4015

Operating System

4017

WEB, LAN, WAN
4123

4125

4121

CUSTOMER
4103

4101

4105

FIGURE 18